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1 Special issue: AI in engineering

D. Sriram; R. Joobhani

January 1985 **ACM SIGART Bulletin**, Issue 91Full text available: [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

2 The role of expectations in human-computer interaction

Joseph A. Bonito, Judee K. Burgoon, Bjorn Bengtsson

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**Full text available: [pdf\(1.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a pilot study on the role of expectations in human-computer interaction on a decision-making task. Participants (N=70) were randomly assigned to one of 5 different computer partners or to a human partner. After completing the rankings for the Desert Survival Task, participants engaged in a dialog with their computer or human partners. Results revealed that interaction with human partners was more expected and more positively evaluated than interaction with compu ...

Keywords: computer-mediated communication, expectations, human-computer interaction, interactivity

3 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2Full text available: [pdf\(6.15 MB\)](#) Additional Information: [full citation](#), [Publisher Site](#)

The FINITE STRING newsletter: Abstracts of current literature



Computational Linguistics Staff

July 1986 **Computational Linguistics**, Volume 12 Issue 3

Full text available: [pdf\(2.25 MB\)](#)

[Publisher Site](#)

Additional Information: [full citation](#)

5 The CMC range war: an investigation into user preferences for email and vmail



Kathryn A. Marold, Gwynne Larsen

April 1997 **Proceedings of the 1997 ACM SIGCPR conference on Computer personnel research**

Full text available: [pdf\(764.80 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

6 Fast detection of communication patterns in distributed executions



Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

7 Human-computer interface development: concepts and systems for its management



H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available: [pdf\(7.97 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

8 Session IX - coordination and decision making: Computer-based systems for cooperative work and group decisionmaking: status of use and problems in development



Kenneth L. Kraemer, John Leslie King

December 1986 **Proceedings of the 1986 ACM conference on Computer-supported cooperative work**

Full text available: [pdf\(1.85 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Application of computer and information technology to cooperative work and group decisionmaking has grown out of three traditions: computer-based communications, computer-based information service provision, and computer-based decision support. This paper provides an overview of the various kinds of systems that have been configured to meet the needs of groups at work, evaluates the status of these systems in the United States, evaluates the experience with them, assesses barriers to their furth ...

9 Spoken dialogue technology: enabling the conversational user interface



Michael F. McTear

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(987.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerce ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

10 Phone-based CSCW: tools and trials



Paul Resnick

October 1993 **ACM Transactions on Information Systems (TOIS)**, Volume 11 Issue 4

Full text available: pdf(1.69 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Telephones are the most ubiquitous, best-networked, and simplest computer terminals available today. They have been used for voice mail but largely overlooked as a platform for asynchronous cooperative-work applications such as event calendars, issue discussions, and question-and-answer gathering. HyperVoice is a software toolkit for constructing such applications. Its building blocks are high-level presentation formats for collections of structured voice messages. The presentation formats ...

Keywords: application generator, cooperative work, groupware, interactive voice response, phone-based interface, semi-structured messages, telephone bulletin board, voice mail

11 Information systems outsourcing: a survey and analysis of the literature



Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka

November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4

Full text available: pdf(1.51 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highlight ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

12 Chat II: How push-to-talk makes talk less pushy



Allison Woodruff, Paul M. Aoki

November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work**

Full text available:  pdf(356.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an exploratory study of college-age students using two-way, push-to-talk cellular radios. We describe the observed and reported use of cellular radio by the participants. We discuss how the half-duplex, lightweight cellular radio communication was associated with reduced interactional commitment, which meant the cellular radios could be used for a wide range of conversation styles. One such style, intermittent conversation, is characterized by response delays. Intermittent co ...

Keywords: cellular radio, instant messaging, two-way radio, walkie talkies

13 Pen computing: a technology overview and a vision

André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available:  pdf(5.14 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

14 Rethinking the design of the Internet: the end-to-end arguments vs. the brave new world

Marjory S. Blumenthal, David D. Clark
August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Full text available:  pdf(176.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article looks at the Internet and the changing set of requirements for the Internet as it becomes more commercial, more oriented toward the consumer, and used for a wider set of purposes. We discuss a set of principles that have guided the design of the Internet, called the end-to-end arguments, and we conclude that there is a risk that the range of new requirements now emerging could have the consequence of compromising the Internet's original design principles. Were ...

Keywords: ISP, Internet, end-to-end argument

15 Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  pdf(9.17 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 An annotated bibliography of computer supported cooperative work

Saul Greenberg
July 1991 **ACM SIGCHI Bulletin**, Volume 23 Issue 3

Full text available:  pdf(4.27 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computer-supported cooperative work (CSCW) is a new multi-disciplinary field with roots in many disciplines. Due to the area's youth and diversity, few specialized books or journals

are available, and articles are scattered amongst diverse journals, proceedings and technical reports. Building a CSCW reference library is particularly demanding, for it is difficult for the new researcher to discover relevant documents. To aid this task, this article compiles, lists and annotates some of the current ...

17 Human factors challenges in creating a principal support office system—the speech filing system approach

John D. Gould, Stephen J. Boies

October 1983 **ACM Transactions on Information Systems (TOIS)**, Volume 1 Issue 4

Full text available:  pdf(1.65 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



18 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available:  pdf(13.13 MB)

Additional Information: [full citation](#), [abstract](#)



In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...

19 Computer-based systems for cooperative work and group decision making

Kenneth L. Kraemer, John Leslie King

July 1988 **ACM Computing Surveys (CSUR)**, Volume 20 Issue 2

Full text available:  pdf(3.56 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Application of computer and communications technology to cooperative work and group decision making has grown out of three traditions: computer-based communications, computer-based information service provision, and computer-based decision support. This paper reviews the group decision support systems (GDSSs) that have been configured to meet the needs of groups at work, and evaluates the experience to date with such systems. Progress with GDSSs has proved to be slower than originally anticipated ...

20 Capturing, structuring, and representing ubiquitous audio

Debby Hindus, Chris Schmandt, Chris Horner

October 1993 **ACM Transactions on Information Systems (TOIS)**, Volume 11 Issue 4

Full text available:  pdf(1.78 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Although talking is an integral part of collaboration, there has been little computer support for acquiring and accessing the contents of conversations. Our approach has focused on ubiquitous audio, or the unobtrusive capture of speech interactions in everyday work environments. Speech recognition technology cannot yet transcribe fluent conversational speech, so the words themselves are not available for organizing the captured interactions. Instead, the structure of an interaction ...

Keywords: audio interactions, collaborative work, multimedia workstation software, semi-structured data, software telephony, stored speech, ubiquitous computing

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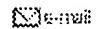
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Potjer, J.; Russel, A.; Boves, L.; den Os, E.;

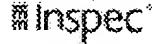
Interactive Voice Technology for Telecommunications Applications, 1996. Proceedings Workshop on

30 Sept.-1 Oct. 1996 Page(s):89 - 92

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Hamersma, B.;
AFRICON, 1996., IEEE AFRICON 4th
Volume 2, 24-27 Sept. 1996 Page(s):804 - 809 vol.2
[AbstractPlus](#) | Full Text: [PDF\(604 KB\)](#) [IEEE CNF](#)

2. **Experimental interactive system for telephone applications with speech recognition synthesis functions**

Kitai, M.; Yamada, T.; Tsukada, H.; Takahashi, S.; Noda, Y.; Takahashi, J.; Yoshida, Y.; Hakoda, K.; Hirokawa, T.; Sagayama, S.;
Interactive Voice Technology for Telecommunications Applications, 1996. Proceedings Workshop on
30 Sept.-1 Oct. 1996 Page(s):25 - 28

[AbstractPlus](#) | Full Text: [PDF\(452 KB\)](#) [IEEE CNF](#)

3. **A user-configurable system for voice label recognition**

Rose, R.C.; Lleida, E.; Erhart, G.W.; Grubbe, R.V.;
Spoken Language, 1996. ICSLP 96. Proceedings., Fourth International Conference on
Volume 2, 3-6 Oct. 1996 Page(s):582 - 585 vol.2

[AbstractPlus](#) | Full Text: [PDF\(484 KB\)](#) [IEEE CNF](#)

4. **Speaker-trained recognition using allophonic enrollment models**

Yanhoucke, V.; Hochberg, M.M.; Leggetter, C.J.;
Automatic Speech Recognition and Understanding, 2001. ASRU '01. IEEE Workshop on
9-13 Dec. 2001 Page(s):61 - 64

[AbstractPlus](#) | Full Text: [PDF\(318 KB\)](#) [IEEE CNF](#)

5. **Burst-by-burst adaptive wideband wireless video telephony**

Hanzo, L.; Wong, C.H.; Cherriman, P.;
Communications and Vehicular Technology, 2000. SCVT-200. Symposium on
19 Oct. 2000 Page(s):215 - 232

[AbstractPlus](#) | Full Text: [PDF\(1708 KB\)](#) [IEEE CNF](#)

6. **Enhancements for integrated wireless personal communications over metropolitan networks**

Cobbold, C.M.; Donaldson, R.W.;

Communications, 1996. ICC 96, Conference Record, Converging Technologies for Tm Applications. 1996 IEEE International Conference on Volume 3, 23-27 June 1996 Page(s):1370 - 1376 vol.3

[AbstractPlus](#) | Full Text: [PDF\(804 KB\)](#) [IEEE CNF](#)

7. Multicarrier TDD systems using channel state feedback information

O'Neill, R.; Lopes, L.;
Vehicular Technology Conference, 1997 IEEE 47th
Volume 3, 4-7 May 1997 Page(s):1822 - 1826 vol.3

[AbstractPlus](#) | Full Text: [PDF\(548 KB\)](#) [IEEE CNF](#)

8. Second generation wireless information networks

Goodman, D.J.;
Vehicular Technology, IEEE Transactions on
Volume 40, Issue 2, May 1991 Page(s):366 - 374

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L17	1	("6741678").PN.	USPAT	OR	OFF	2005/07/19 10:33
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